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Patricia K. Danner

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of

PIZZA et al.

Group Art: 1654

Serial No.: 09/297,171

Examiner: M. Borin

Filed: April 26, 1999

For: IMMUNOGENIC DETOXIFIED MUTANT E. COLI LT-A TOXIN

POWER OF ATTORNEY

Assistant Commissioner of Patents
Washington, D.C. 20231

Sir:

Pursuant to 37 C.F.R. §1.36, Chiron Corporation, the Assignee of the above-identified patent application hereby appoints the following attorneys and agents, to prosecute this application and to transact all business in the Patent and Trademark Office in connection therewith.

Robert P. Blackburn - Reg. No. 30,447

Alisa A. Harbin - Reg. No. 33,895

Lisa E. Alexander - Reg. No. 41,576

Charlene A. Launer - Reg. No. 33,035

Anne S. Dollard - Reg. No. 49,935

David P. Lentini - Reg. No. 33,944

Joseph H. Guth - Reg. No. 31,261

Kimberlin L. Morley - Reg. No. 35,391

All attorneys of the law firm of Robins & Associates

Please direct all correspondence and telephone calls regarding this application to the following:

Chiron Corporation
Intellectual Property - R440
P.O. Box 8097
Emeryville, CA 94662-8097
TEL: (510) 923-2708
FAX: (510) 655-3542
Attn: Alisa A. Harbin

CHIRON CORPORATION

Dated: 1/5/00

By: 

Anne S. Dollard
Assistant Secretary
Registration No. 43,935

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Patricia K. Stevens

3/15/00
Date

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MUTANT E. COLI LT-A TOXIN

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CERTIFICATE UNDER 37 C.F.R. § 3.73(b)

CHIRON CORPORATION, a Corporation
(Name of Assignee) (Type of Assignee, e.g., corporation, partnership,
university, government agency, etc.)

states that it is:

1. the assignee of the entire right, title, and interest, or
2. an assignee of an undivided part interest

in the patent application/patent identified above by virtue of either:

A. An Assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

OR

B. A chain of title from the inventor(s) of the patent application/patent identified above to the current assignee as shown below:

1. From: _____ To: _____
The document was recorded in the Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.

2. From: _____ To: _____
The document was recorded in the Patent and Trademark Office at
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3. From: _____ To: _____
The document was recorded in the Patent and Trademark Office at
Reel _____, Frame _____, or for which a copy thereof is attached.

[] Additional documents in the chain of title are listed on a supplemental sheet.

[X] Copies of assignments or other documents in the chain of title are attached.

[NOTE: A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the PTO. See MPEP 302-302.8]

The undersigned (whose title is supplied below) is empowered to act on behalf of the assignee.

Date: 1/5/00

Name: Anne S. Dollard

Title: Assistant Secretary, CHIRON CORPORATION

Signature: Anne S. Dollard

FORM PTO-1595
(Rev. 6-93)Recordation Form Cover Sheet
(Patents Only)U.S. Department of Commerce
Patent and Trademark Office

To the Honorable Asst. Commissioner for Patents. Please record the attached original documents or copy thereof

1. Name of conveying party(ies):

Mariagrazia Pizza
Marzia Monica Giuliani
Rino Giuliani

Additional name(s) of conveying parties attached?

Yes No.

3. Nature of conveyance:

Assignment Merger
 Security Agreement Change of Name
 Other:

Execution Date: October 13, 1999

4. Application Number(s) or Patent Numbers.

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No(s): 09/297,171

Additional numbers attached? Yes No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Alisa A. Harbin
CHIRON CORPORATION
Intellectual Property – R440
P.O. Box 8097
Emeryville, CA 94662-8097
(510) 923-3888

6. Total number of applications and patents involved: One

7. Total fee (37 CFR 3.41): \$40.00

Enclosed Charge Fees to Deposit Account
 Charge any additional fees associated with this paper or during the pendency of this application, or credit any overpayment, to deposit account.

8. Deposit account number: 03-1664

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9. Statement and signature.

To the best of my knowledge and belief, the foregoing is true and correct and any attached copy is a true copy of the original document.

Anne S. Dollar
Name of Person Signing

Signature

11/22/99
DateAtty Reg. No. 43,935Total number of pages including cover sheet, attachments and document Five10. Change Correspondence Address to that of Part 5? Yes No

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Asst. Commissioner for Patents
Box: Assignments
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ASSIGNMENT

**WHEREAS, WE, MARIAGRAZIA PIZZA, MARZIA MONICA GIULIANI AND
RINO RAPPOLI**

hereinafter referred to as **ASSIGNORS**, have invented certain new and useful improvements as described and set forth in the below-identified application for United States Letters Patent:

**Title of Invention: IMMUNOGENIC DETOXIFIED MUTANT E. COLI LT-A
TOXIN**

Date of Execution: Filing Date: April 26, 1999

Serial No: 09/297,171

WHEREAS, CHIRON S.p.A. of Via Fiorentina, 1, I-53100, Siena, ITALY, hereinafter referred to as **ASSIGNEE**, is desirous of acquiring the entire right, title and interest in the above invention and application and in any Letters Patent which may be granted on the same;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that, for and in consideration of the sum of One Dollar (\$1.00) lawful money paid to **ASSIGNORS** by **ASSIGNEE**, receipt of which is hereby acknowledged, **ASSIGNORS** have sold, assigned and transferred, and by these presents do sell, assign and transfer unto said **ASSIGNEE**, and **ASSIGNEE'S** successors and assigns, all right, title and interest in and to the said invention, said application for United States Letters Patent, and any Letters Patent which may hereafter be granted on the same in the United States and all countries throughout the world including any divisions, renewals, continuations in whole or in part, substitutions, conversions, reissues, prolongations or extensions thereof, the said interest to be held and enjoyed by said **ASSIGNEE** as fully and exclusively as it would have been held and enjoyed by said **ASSIGNORS** had this assignment and transfer not been made, to the full end and term of any Letters Patent.

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ASSIGNOR further agrees that he will, without charge to said *ASSIGNEE*, but at *ASSIGNEE'S* expense, cooperate with *ASSIGNEE* in the prosecution of said application and/or applications, execute, verify, acknowledge and deliver all such further papers, including applications for Letters Patent and for the reissue thereof, and instruments of assignment and transfer thereof, and will perform such other acts as *ASSIGNEE* lawfully may request, to obtain or maintain Letters Patent for said invention and improvement in any and all countries, and to vest title thereto in said *ASSIGNEE*, or *ASSIGNEE'S* successors and assigns.

IN TESTIMONY WHEREOF, ASSIGNOR has hereunto signed his name to this assignment on the dates indicated below.

DATE 13 October 1999

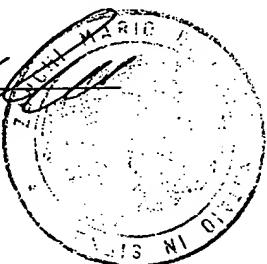
Mariagrazia Pizza

Inventor -Mariagrazia Pizza

Pizza Dr.ssa Maria Grazia nata ad Eboli il 13 Dicembre 1961,
dirigente d'azienda residente in Siena Strada di Montalbuccio
n. 160

Subscribed and Sworn to me this 13 day of October 1999

Notary Public

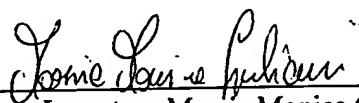


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IN TESTIMONY WHEREOF, ASSIGNOR has hereunto signed his name to this assignment on the dates indicated below.

DATE 13 October 1999



Inventor -Marzia Monica Giuliani

Giuliani Dr.ssa Marzia Monica nata a Bagni di Lucca il 9
Febbraio 1961, residente a Castelnuovo Berardenga, località
Poggiarello La Ripa n. 48, biologa

Subscribed and Sworn to me this 13 day of October 1999



Notary Public

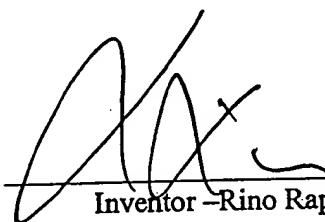


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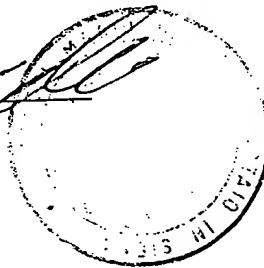


Inventor - Rino Rappuoli

Dottor Rappuoli Rino nato a Radicofani il 4 Agosto 1952, residente in Monteriggioni, Quercegrossa, Via Calamandrei n.39, dirigente di azienda

Subscribed and Sworn to me this 13 day of October 1999

Notary Public



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